

DM9051 Bench test host & DM9051 commands

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1. polling command

HOST:

DA: broadcast SA: host_MAC Type: 09 00 Mode: 00 00 Data: 00~43

DM9051 reply:

DA: host_MAC SA: local_MAC Type: 09 01 Mode: 00 00 Data: 00~43

Where Data 0: 00=no memory test, 01=memory OK, 07=memory fail

Data 1 ~ Data 24: E-Fuse Byte 0 ~ 23

Data 25: Firmware version

2. PHY mode command

HOST:

DA: local_MAC SA: host_MAC Type: 0B 00 Mode: 04 phy_mode Data: 00~43

Phy_mode: to PHY register 4, 0xFF=0x05E1 (100Full), 0x88=0x0501, 0x44=0x0481 (100H), 0x22=0x0441 (10F), 0x11=0x0421 (10H)

DM9051 reply:

DA: host_MAC SA: local_MAC Type: 0B 01 Mode: 4 phy_reg_4 5 phy_reg_5 Data: 00~39

3. RX packet command

HOST:

DA: broadcast SA: host_MAC Type: 0D 00 Mode: seq_ctr (2-byte) Data: 00~N

DM9051 reply:

DA: host_MAC SA: local_MAC Type: 0D 01 Mode/Data: same as Host